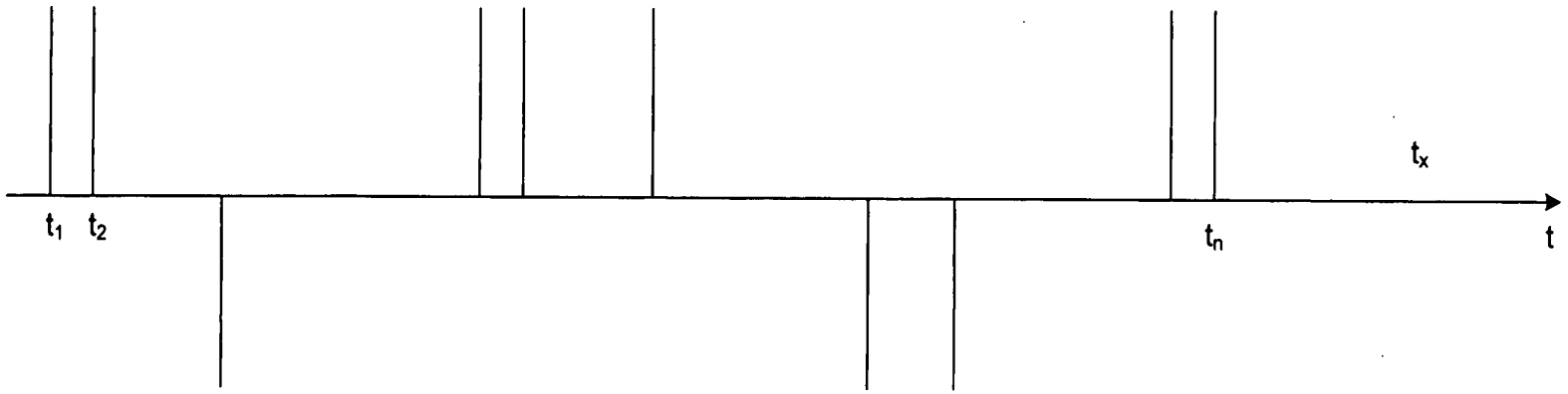

FIG. 1A

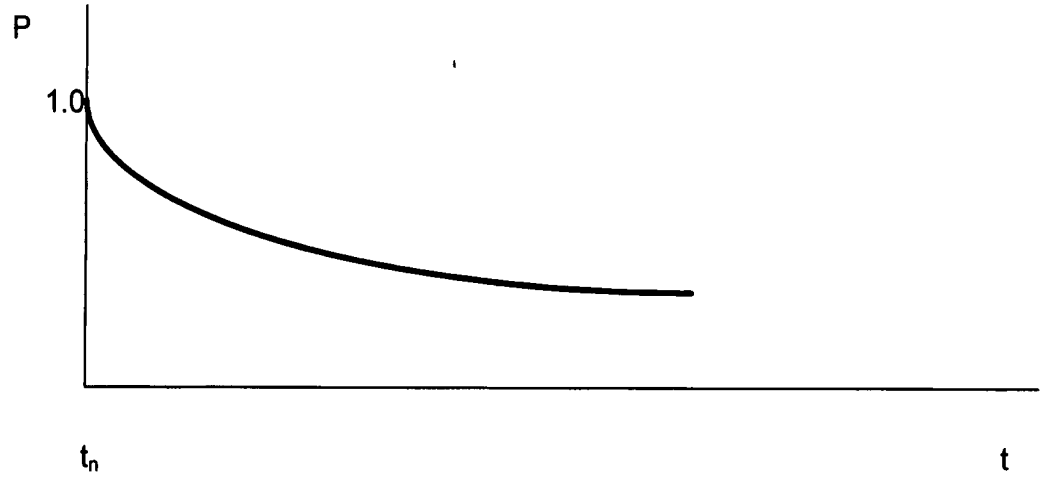

FIG. 1B

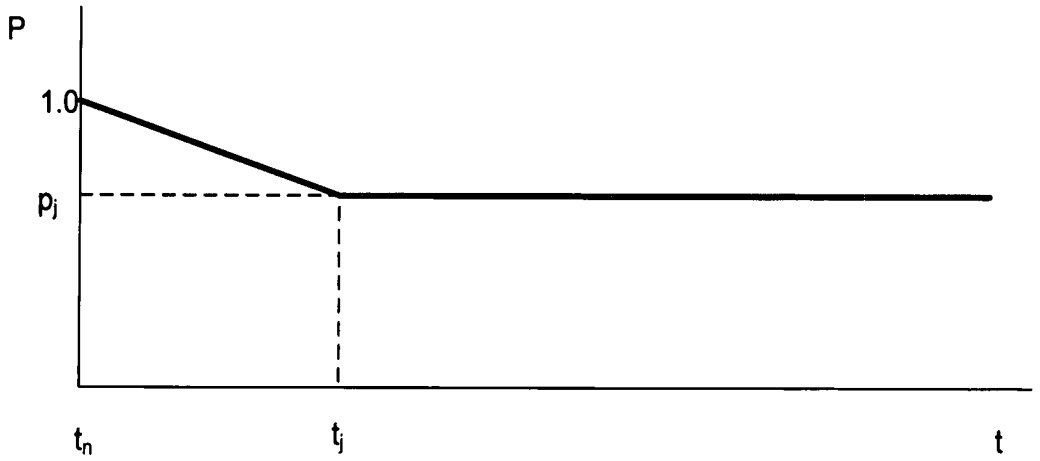

FIG. 2

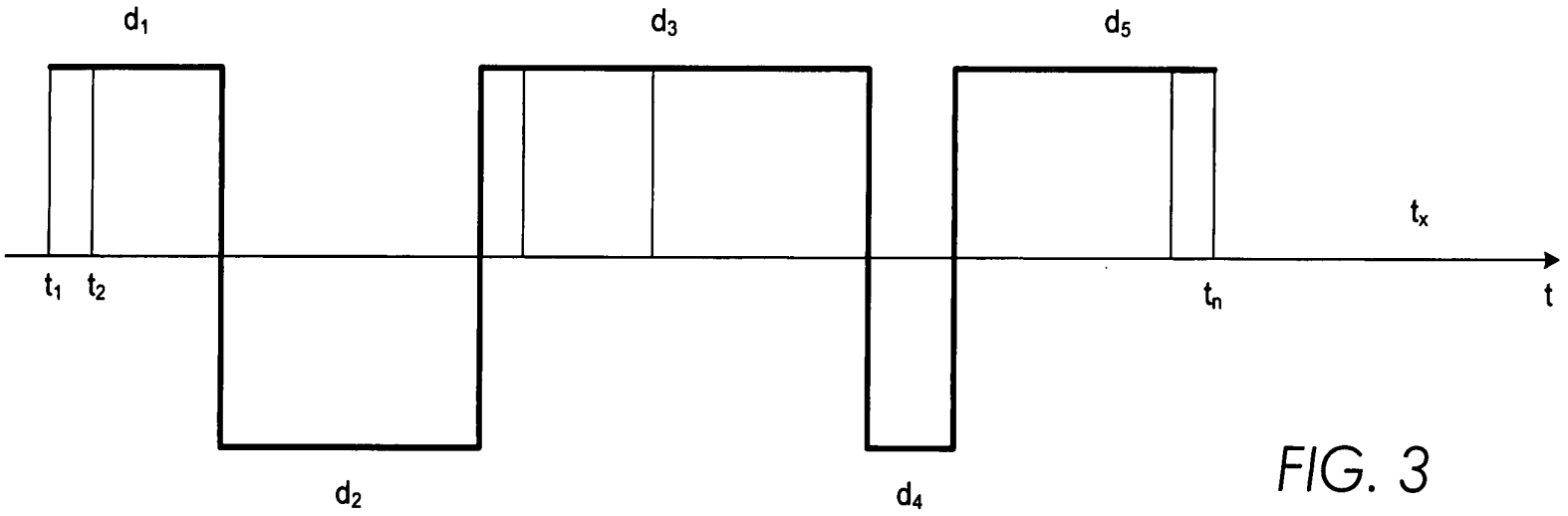

FIG. 3

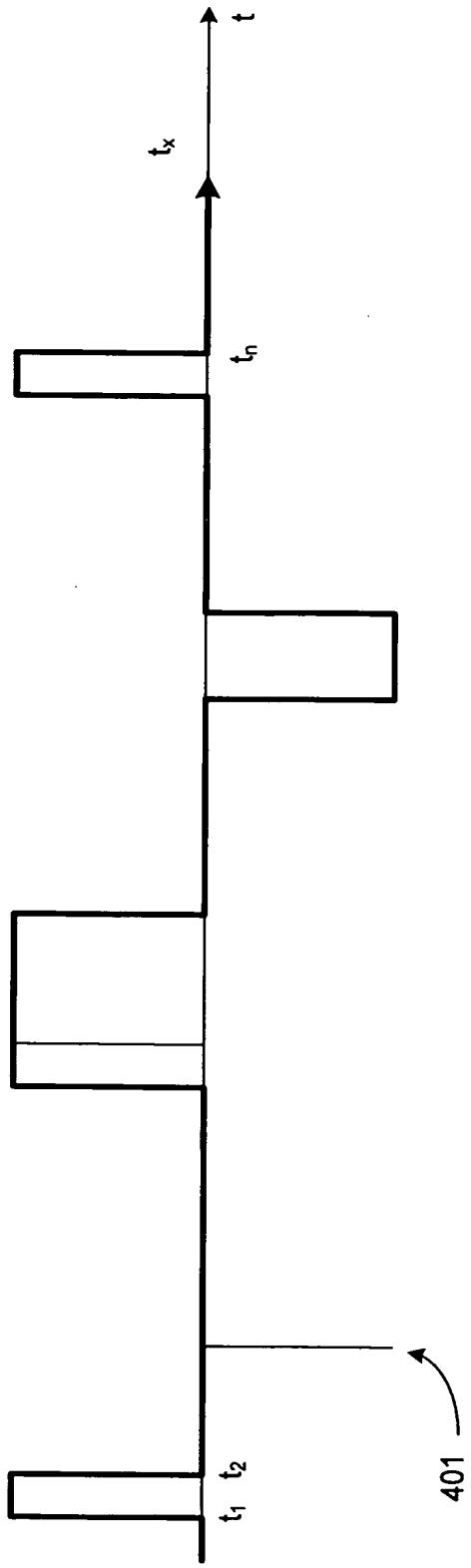

FIG. 4

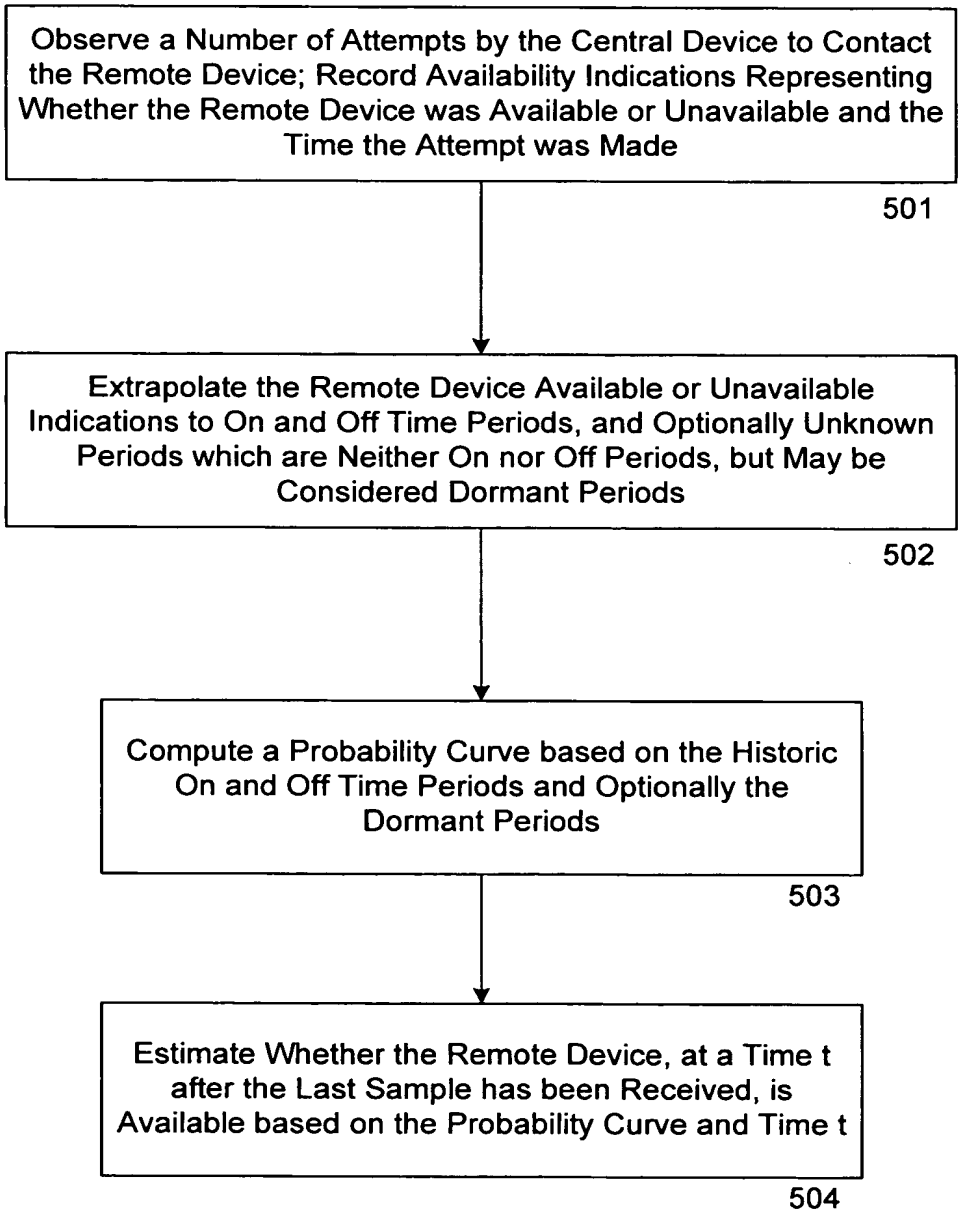
Observe a Number of Attempts by the Central Device to Contact the Remote Device; Record Availability Indications Representing Whether the Remote Device was Available or Unavailable and the Time the Attempt was Made
501
Extrapolate the Remote Device Available or Unavailable Indications to On and Off Time Periods, and Optionally Unknown Periods which are Neither On nor Off Periods, but May be Considered Dormant Periods
502
Compute a Probability Curve based on the Historic On and Off Time Periods and Optionally the Dormant Periods
503
Estimate Whether the Remote Device, at a Time t after the Last Sample has been Received, is Available based on the Probability Curve and Time t
504

FIG. 5

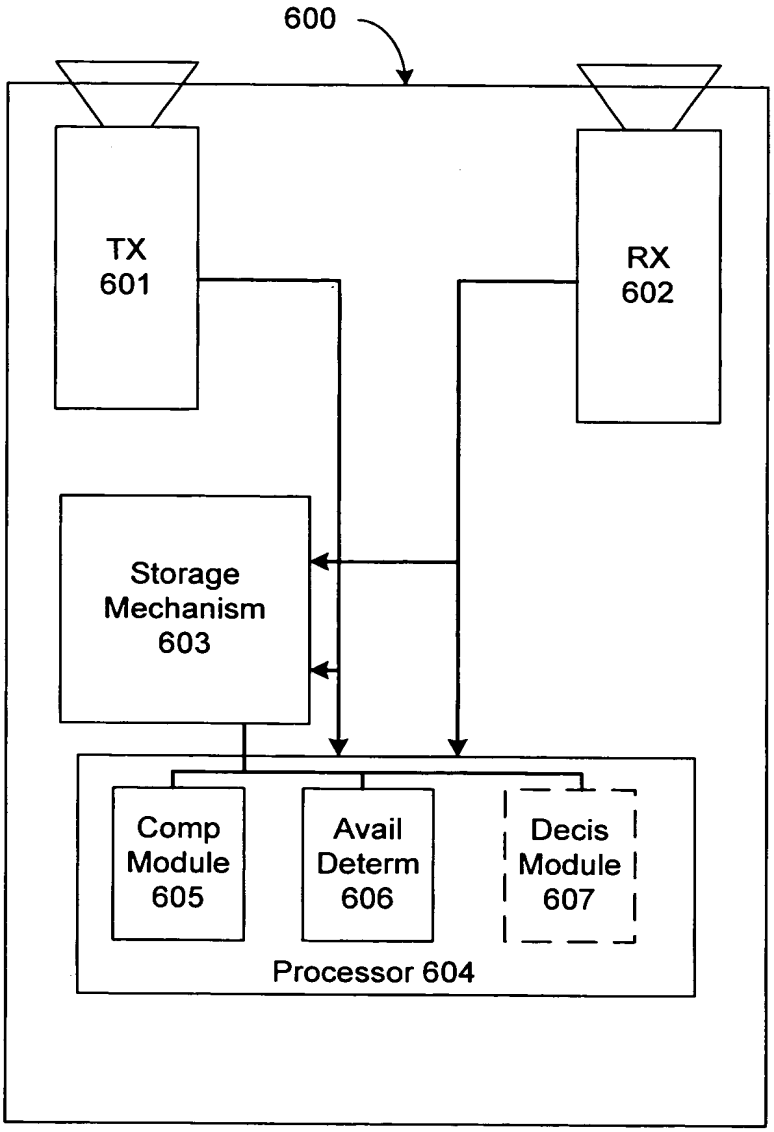
600
TX
601
RX
602
Storage
Mechanism
603
Comp
Module
605
Avail
Determ
606
Decis
Module
607
Processor 604

FIG. 6

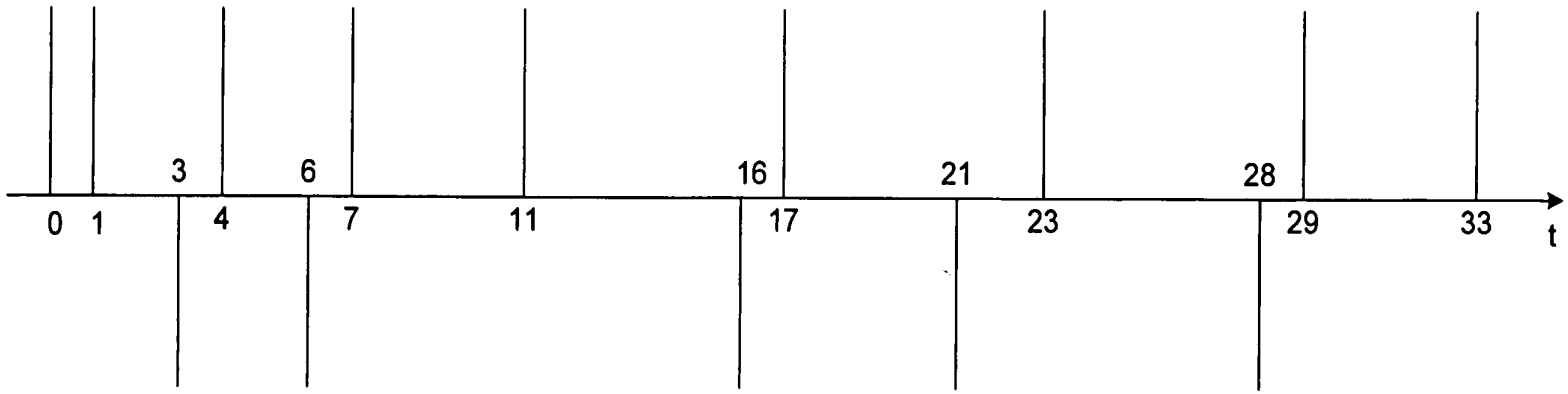

FIG. 7A

Bin No	1	2
Bin Interval	1-3	4-6
Up Sample Count	1	2
Down Sample Count	2	3

Following
Up Sample

Bin No	1	2
Bin Interval	1-3	4-6
Up Sample Count	5	0
Down Sample Count	0	0

Following
Down Sample

FIG. 7B

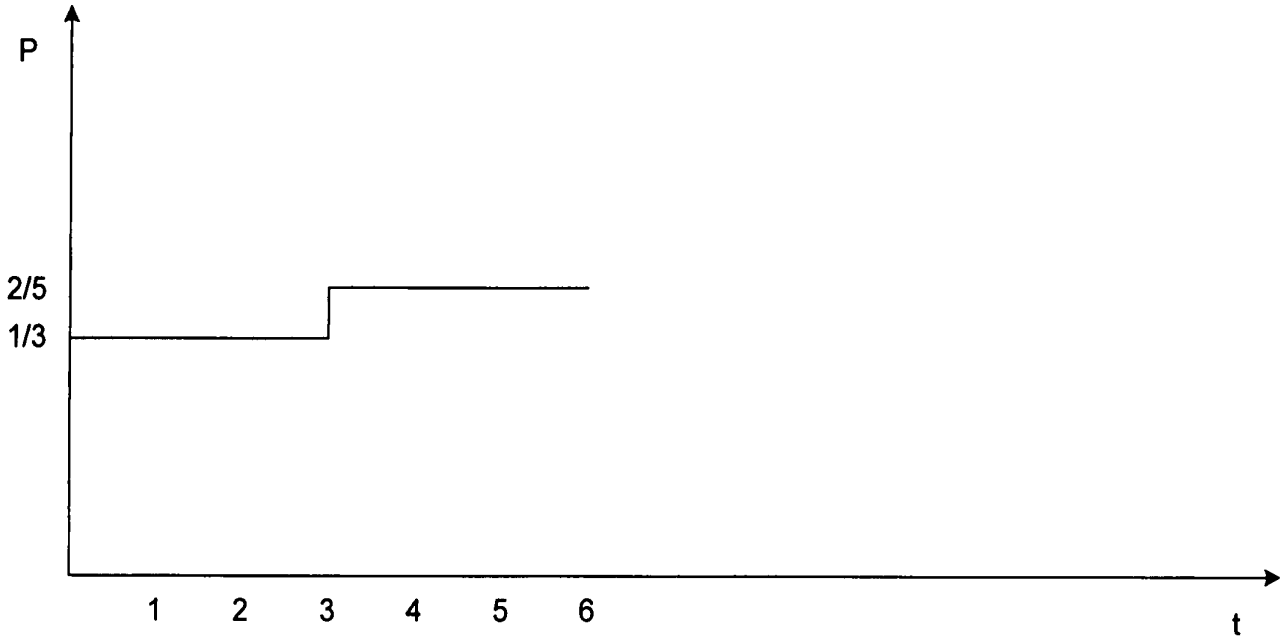

FIG. 7C

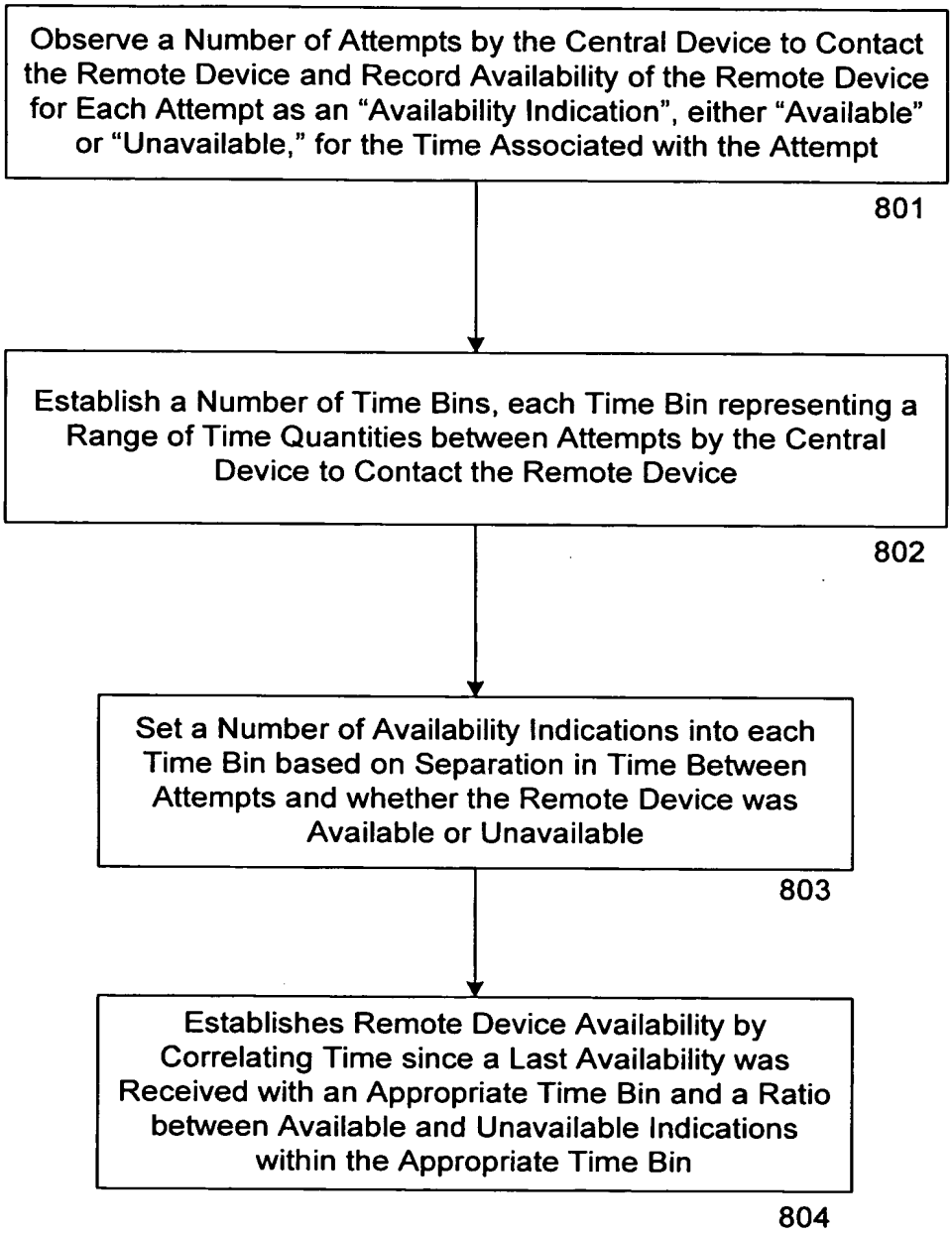
Observe a Number of Attempts by the Central Device to Contact the Remote Device and Record Availability of the Remote Device for Each Attempt as an "Availability Indication", either "Available" or "Unavailable," for the Time Associated with the Attempt
801
Establish a Number of Time Bins, each Time Bin representing a Range of Time Quantities between Attempts by the Central Device to Contact the Remote Device
802
Set a Number of Availability Indications into each Time Bin based on Separation in Time Between Attempts and whether the Remote Device was Available or Unavailable
803
Establishes Remote Device Availability by Correlating Time since a Last Availability was Received with an Appropriate Time Bin and a Ratio between Available and Unavailable Indications within the Appropriate Time Bin
804

FIG. 8